



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010663
CERTIFICATION DATE: October 1, 2013
DATE RECERTIFICATION DUE: March 30, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

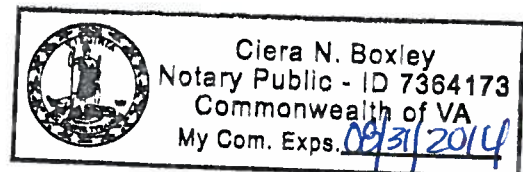
Melissa Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 9th day of October, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 10/4/2013

HMS
Wsk

Instrument Serial Number: 010663

As of 04-Oct-13

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
01-Oct-13	01-Oct-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
18-Apr-13	18-Apr-13	DBH (21250)	CERTIFIED.
08-Nov-12	08-Nov-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
23-May-12	23-May-12	DBH (21250)	CERTIFIED
08-Dec-11	08-Dec-11	DBH (21250)	CERTIFIED
30-Jun-11	30-Jun-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
05-Jan-11	05-Jan-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
22-Jul-10	22-Jul-10	DBH (21250)	CERTIFIED
11-Jun-10	04-Feb-10	DBH (21250)	REPLACED DRY GAS STANDARD
04-Feb-10	04-Feb-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
09-Sep-09	09-Sep-09	DBH (21250)	CERTIFIED.
19-Mar-09	19-Mar-09	DBH (21250)	CERTIFIED.
11-Mar-09	11-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
06-Feb-09	06-Feb-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

HMS
NOK

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010663 Worksheet Start Date 10/1/2013

Location Fort Story

Address 700 Leyte Rd., Fort Story, VA 23459

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒ ☐

2 Environment free from contaminants

☒ ☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒ ☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒ ☐

	Old serial no.	New serial no.	Supplies
E-Seek			Mouthpieces
Keyboard			Certificates of Analysis
Printer			Operator Worksheet
UPS			Other:

Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010663

Certification Date 10/1/2013

Instrument Barometer (mm HG) 762

Reference Barometer (mm HG) 761

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.247
0.250	0.250	0.242	0.257	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.247
0		0.247	0.247		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.152
0.150	0.150	0.145	0.154	Sample 2	0.152
Precision		sample min	sample max	Sample 3	0.152
0		0.152	0.152		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG210901-10

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.100	0.097	0.103	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

DFS Technician

Heath M. Stath

Date

10/4/13

Issuing Analyst

Melinda Kennedy

Date

10/7/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2



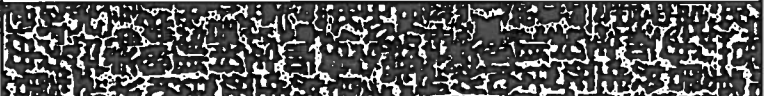
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HNS and NW

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 10/01/2013
TEST EQUIPMENT NUMBER 010663		

RESULTS: TIME SAMPLE TAKEN **13:26 EDT**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 01 Oct 2013 at 13:49

sed
HMS
NWOL

Test Results

Instrument Serial Number 010663

Test # 000155 Subject Test

Test Location 1 Department of
Test Date 01 Oct 2013

Test Location 2 Forensic Science
Test Time 13:19
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab
Card Serial Number 118910
Subject's Last Name INSTRUMENT
Subject's Middle Initial
Driver's License Number
Driver's License State

Operator's First Name HEATHER
Operator's Middle Initial M
License Number 18910
Effective Date 10/01/2012
Expiration Date 10/01/2014
Subject's First Name TEST
Subject's Date of Birth 00/00/0000
Subject's Sex Male
Driver's License Expiration 00/00/0000
Court Name DFS

End Date 01 Oct 2013 End Time 13:27

Result Time 13:26

Result Date 01 Oct 2013 Result 0.00

Data Type DIAG
Data Type BLK
Data Type CHK
Data Type BLK
Data Type SUBJ
Data Type BLK
Data Type SUBJ
Data Type BLK

Sample Value Pass
Sample Value 0.000
Sample Value 0.102
Sample Value 0.000
Sample Value 0.000
Sample Value 0.000
Sample Value 0.000
Sample Value 0.000

Sample Time 13:20
Sample Time 13:20
Sample Time 13:21
Sample Time 13:22
Sample Time 13:23
Sample Time 13:24
Sample Time 13:26
Sample Time 13:27

Standard Type Dry Gas Std
Standard Lot Number AG129004-13
Tank Pressure 178

Standard Value 0.100

Standard Expiration Date 10/17/2013

Barometric Pressure 761 mmHg

Blow Sample Number 1 Blow Duration 3.59 sec
Blow Sample Number 2 Blow Duration 3.61 sec

Blow Volume 1716 cc End-of-Blow Time 13:23
Blow Volume 1798 cc End-of-Blow Time 13:26

Tamper Evident Stamp 17dcb3f2

Test Status Code 0

Test Status Success

Handwritten initials: *MS*
MS

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010663 Test Number: 156

Test Date: 10/01/2013 Test Time: 13:28 EDT

Dry Gas Target: 0.100

Lot Number: AG129004-13 Exp Date: 10/17/2013

Tank Pressure: 174 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:28
CHK	0.101	13:29
BLK	0.000	13:31
CHK	0.101	13:31
BLK	0.000	13:33
CHK	0.101	13:33

Test Status: Success

Calibration CRC: 2AF373D4

THS
WDL

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010663 Test Number: 156

Test Date: 10/01/2013 Test Time: 13:28 EDT

Dry Gas Target: 0.100

Lot Number: AG129004-13 Exp Date: 10/17/2013

Tank Pressure: 174 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:28
CHK	0.101	13:29
BLK	0.000	13:31
CHK	0.101	13:31
BLK	0.000	13:33
CHK	0.101	13:33

Test Status: Success

Calibration CRC: 2AF373D4

Re-print, adjusted head gap lever.

THS
10/1/13

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010663 Test Number: 157

Test Date: 10/01/2013 Test Time: 13:36 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-02 Exp Date: 08/15/2015

Tank Pressure: 198 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:37
CHK	0.303	13:37
BLK	0.000	13:39
CHK	0.302	13:40
BLK	0.000	13:41
CHK	0.302	13:42

Test Status: Success

Calibration CRC: 2AF373D4

HMS
MS

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010663

System Date: 10/01/2013

System Time: 14:05 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

THS
WDL

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010663 Test Number: 158

Test Date: 10/01/2013 Test Time: 14:08 EDT

Dry Gas Target: 0.100

Lot Number: 0651210013-06 Exp Date: 04/01/2014

Tank Pressure: 678 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:08
CAL	0.100	14:09

Test Status: Success

Calibration CRC: 2B642DDA

HMS
NSA

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010663 Test Number: 159

Test Date: 10/01/2013 Test Time: 14:12 EDT

Technician Initials: HMS

Dry Gas Target: 0.250

Lot Number: 2961225012-08 Exp Date: 11/01/2014

Tank Pressure: 605 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:12
BLK	0.000	14:13
CHK	0.247	14:14
BLK	0.000	14:15
CHK	0.247	14:16
BLK	0.000	14:17
CHK	0.247	14:18
BLK	0.000	14:19

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

thg
msd

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010663 Test Number: 160

Test Date: 10/01/2013 Test Time: 14:21 EDT

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 0771315013-04 Exp Date: 05/01/2015

Tank Pressure: 125 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:21
BLK	0.000	14:22
CHK	0.152	14:23
BLK	0.000	14:24
CHK	0.152	14:25
BLK	0.000	14:26
CHK	0.152	14:27
BLK	0.000	14:28

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010663 Test Number: 161
Test Date: 10/01/2013 Test Time: 14:29 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 0651208012-04 Exp Date: 04/01/2014
Tank Pressure: 134 psi Barometric Pressure: 760 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:30
BLK	0.000	14:30
CHK	0.080	14:31
BLK	0.000	14:32
CHK	0.080	14:33
BLK	0.000	14:34
CHK	0.080	14:35
BLK	0.000	14:36

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
MSE

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010663 Test Number: 162

Test Date: 10/01/2013 Test Time: 14:37 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0651202011-03 Exp Date: 04/01/2014

Tank Pressure: 208 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:38
BLK	0.000	14:39
CHK	0.019	14:39
BLK	0.000	14:41
CHK	0.019	14:41
BLK	0.000	14:42
CHK	0.019	14:43
BLK	0.000	14:44

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS
MSL

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010663 Test Number: 163

Test Date: 10/01/2013 Test Time: 14:47 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-02 Exp Date: 08/15/2015

Tank Pressure: 188 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:47
CHK	0.301	14:48
BLK	0.000	14:50
CHK	0.301	14:51
BLK	0.000	14:52
CHK	0.300	14:53

Test Status: Success

Calibration CRC: 2B642DDA

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010663 Test Number: 164

Test Date: 10/01/2013 Test Time: 14:55 EDT

Dry Gas Target: 0.100

Lot Number: AG210901-10 Exp Date: 04/18/2014

Tank Pressure: 159 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:56
CHK	0.100	14:57
BLK	0.000	14:58
CHK	0.100	14:59
BLK	0.000	15:00
CHK	0.100	15:01

Test Status: Success

Calibration CRC: 2B642DDA




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFB
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 10/01/2013
TEST EQUIPMENT NUMBER 010663		

RESULTS: TIME SAMPLE TAKEN **15:08 EDT**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 04 Oct 2013 at 08:26

HMS
WBL

Test Results

Instrument Serial Number 010663

Test # 000165 Subject Test

Test Location 1 Department of
Test Date 01 Oct 2013

Test Location 2 Forensic Science
Test Time 15:02
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 01 Oct 2013 End Time 15:10

Result Time 15:08

Result Date 01 Oct 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:03

Data Type BLK

Sample Value 0.000

Sample Time 15:03

Data Type CHK

Sample Value 0.100

Sample Time 15:04

Data Type BLK

Sample Value 0.000

Sample Time 15:05

Data Type SUBJ

Sample Value 0.000

Sample Time 15:06

Data Type BLK

Sample Value 0.000

Sample Time 15:07

Data Type SUBJ

Sample Value 0.000

Sample Time 15:08

Data Type BLK

Sample Value 0.000

Sample Time 15:09

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG210901-10

Standard Expiration Date 04/18/2014

Tank Pressure 149

Barometric Pressure 760 mmHg

Blow Sample Number 1 Blow Duration 3.38 sec

Blow Volume 1721 cc End-of-Blow Time 15:06

Blow Sample Number 2 Blow Duration 3.45 sec

Blow Volume 1720 cc End-of-Blow Time 15:08

Tamper Evident Stamp e86d0535

Test Status Code 0

Test Status Success